

Abstract of the Invention

An electric locking device for locking brake, clutch, and/or accelerator pedal of an automobile according to the present invention brings an electrical system to work together with a mechanism to facilitate the use and increased efficiency in prevention of theft. Users of this device no longer need to bend and pull a part of the locking device in order to lock and no longer need to use a key to unlock the master lock. This locking device will operate only when a decoder receives an instruction signal to lock and unlock from an encoder. The decoder then sends a signal to give instruction to a control circuit to send an output to control the operation of various theft prevention systems working together with the present invention; and also to send another signal to a driver circuit to drive a motor to rotate and force the locking mechanism to carry a locking member into the locking or unlocking positions. At the same time the control circuit also monitors the travel position of the mechanism or the rotation position of the motor to determine whether it is a locking or unlocking position. A signal is sent to the driver circuit to stop the rotation of the motor if it is determined that the position detected is a locking or unlocking position.

When any part of the electrical circuit used for locking and unlocking or controlling the motor fails to function, a key can be used to unlock the master lock and to free the locking mechanism including the locking member into an unlocked

condition. An encoder can send a reset signal to another set of decoder installed separately to reset and disable the operation of various theft prevention systems working together with the present invention, thereby enabling the vehicle to function normally.

Moreover the motor and electrical circuit according to the present invention can be used to work with various types of locking mechanisms to lock the brake, clutch, and/or accelerator pedal of an automobile, with such locking mechanism varying according to the structure of vehicle of each type and each model.